



Entergy Operations, Inc.  
Waterloo Road  
P.O. Box 756  
Port Gibson, MS 39150  
Tel 601 437 6299

**Charles A. Bottemiller**  
Manager  
Plant Licensing

October 31, 2002

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Subject: Report of Changes and Errors to 10CFR50.46  
Evaluation Model  
Grand Gulf Nuclear Station  
Docket No. 50-416  
License No. NPF-29

GNRO-2002/00093

Ladies & Gentlemen:

In accordance with 10CFR50.46 (a)(3)(ii), Grand Gulf Nuclear Station (GGNS) is required to report to the Commission, at least annually, the estimated effect on the limiting Emergency Core Cooling System (ECCS) analyses caused by changes to or errors discovered in acceptable ECCS evaluations. The purpose of this letter is to report four errors and a change associated with the GGNS ECCS analyses that have been identified since the last 10CFR50.46 report dated November 7, 2001 (GNRO 2001/00086). The impacted analyses were performed by General Electric Nuclear Energy (GENE) using their NRC approved SAFER/GESTR methodology.

The first error resulted in an incorrect core spray injection elevation for the lower core spray sparger. GENE determined that this error resulted in an increase of 15 °F to the GGNS licensing basis peak clad temperature (PCT).

The second error was associated with an incorrect initial water level which impacts the initial liquid inventory. GENE determined that the impact to the GGNS licensing basis PCT as a result of this error was negligible.

The third error was associated with an incorrect interpolation code that resulted in a slightly lower initial gap conductance than it should have been. GENE determined that the impact to the GGNS licensing basis PCT as a result of this error was also negligible.

October 31, 2002  
GNRO-2002/00093  
Page 2 of 2

The fourth error was associated with an incorrect vessel volume in the downcomer region calculated by the WEVOL code. GENE determined that the impact to the GGNS licensing basis PCT as a result of this error was also negligible.

Finally, GENE has changed the LOCA evaluation code SAFER04 from the VAX computer platform to the Alpha computer platform. This change in computer platforms could impact the calculated PCT due to changes in the processor word size and FORTRAN compiler characteristics. However, GENE has determined that this change in computer platforms results in a negligible impact to the GGNS licensing basis PCT.

Therefore, the overall impact to the GGNS licensing basis PCT as a result of the errors and change listed above is an increase of 15 °F. As such, the GGNS licensing basis PCT changes from <1830°F to <1845°F, which remains well below the 2200°F acceptance criterion of 10 CFR 50.46.

This letter does not contain any commitments. Should you have any questions or require additional information, please contact this office.

Yours truly,



CAB/RRJ/rj

attachment: LICENSEE-IDENTIFIED COMMITMENTS

cc:

Hoeg	T. L.	(GGNS Senior Resident)	(w/a)
Levanway	D. E.	(Wise Carter)	(w/a)
Reynolds	N. S.		(w/a)
Smith	L. J.	(Wise Carter)	(w/a)
Thomas	H. L.		(w/o)

U.S. Nuclear Regulatory Commission  
ATTN: Mr. E. W. Merschoff (w/2)  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-4005

U.S. Nuclear Regulatory Commission  
ATTN: Mr. David H. Jaffe NRR/DLPM (w/2)  
**ATTN: FOR ADDRESSEE ONLY**  
ATTN: U.S. Postal Delivery Address Only  
Mail Stop OWFN/7D-1  
Washington, D.C. 20555-0001

**Attachment 1**

**LICENSEE-IDENTIFIED COMMITMENTS**

<b>Letter #:</b>	<b>GNRO-2002/00093</b>			
<b>COMMITMENT</b>	<b>TYPE</b> <small>(Check only one type)</small>		<b>SCHEDULED COMPLETION DATE</b> <small>(If Required)</small>	
	<b>ONE- TIME ACTION</b>	<b>CONTINUING COMPLIANCE</b>		
<b>None</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	